Stage Construction Line

-Washer Face

<u>"B"</u>

INSTALLATION AND SETTING METHODS

"A": Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or

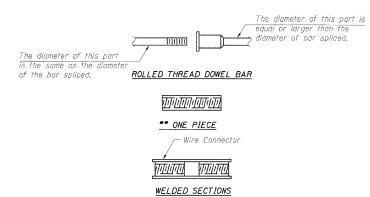
(E): Indicates epoxy coating.

cementing to steel forms.

Threaded or Coil Splicer Rods (E)

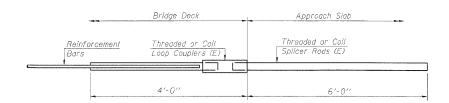
Template

Forms ----



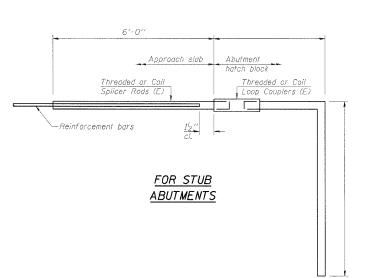
BAR SPLICER ASSEMBLY ALTERNATIVES

**Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

	Bar	Splicer	for #5	bar	
Min.	Capacity	= 23.0	kips -	tension	
Min.	Pull-out	Strength	= 12.3	Kips -	tension



	Bar Splicer for #5 bar
Min.	Capacity = 23.0 kips - tension
Min.	Pull-out Strength = 12.3 kips - tension

<u>NOTES</u>

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksl yield strength, threaded or coiled full length.

All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

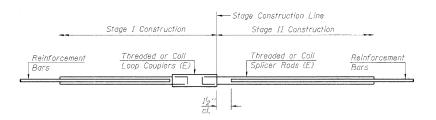
Cer assembly solutions:

Minimum Capacity
(Tension in kips) = 1.25 x fy x A₁

Minimum *Pull-out Strength
(Tension in kips) = 0.66 x fy x A₁

Minimum *Puil-out Strengm = 0.66 x fy x A₁
(Tension in kips)
Where fy = Yield strength of lapped reinforcement bars in ksi.
A₁ = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

BAR SPLICER ASSEMBLIES					
	_	Strength Requirements			
	Splicer Rod or Dowel Bar Length		Min, Pull-Out Strength kips - tension		
#4	1'-8''	14.7	7,9		
#5	2'-2"	23.0	12.3		
#6	2'-7"	33.1	17.4		
#7	3′-5″	45.1	23.8		
#8	4'-6''	58.9	31.3		
#9	5′-9′′	75.0	39,6		
#10	7'-3''	95.0	50.3		
-44.00	0/ 0//	117.4	C10		



STANDARD

Bar Size	No. Assemblies Required	Location	
#5	16	Deck	
#6	6	Deck	

BAR SPLICER ASSEMBLY DETAILS STRUCTURE NO. 022-0100

alfred benesch & company benesch Surveyors - Planners 205 North Michigan Avenue, Suite 2400 Chicago, Illinois 60001 3100 Not. 10050

SHEET NO.10
12 SHEETS

SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
22(1, 1-1,	2&3)RS-	- 7	DUPAGE	546	327
			CONTRACT	NO. 60)G51
OAD DIST. NO.	ILLINOIS	FED. A	ID PROJECT		
	22(1, 1-1,	SECTION 22(1, 1-1, 2&3)RS-	SECTION 22(1, 1-1, 2&3)RS-7	SECTION COUNTY 22(1, 1-1, 2&3)RS-7 DUPAGE CONTRACT	22(1, 1-1, 2&3)RS-7 DUPAGE 546 CONTRACT NO. 60

CHECKED -BSD-1

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AAY

AAY

DESIGNED -

CHECKED

10-1-08